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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )

Toshihisa Kato et al. )

Application No.: 10/522,787 )

Filed: January 31, 2005 )

For: STEERING APPARATUS FOR A )  
VEHICLE )

Group Art Unit: 1742

Examiner:

Confirmation No.: 3618

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the Official Filing Receipt marked in red to show correction that is needed. The correction is as follows:

Please change the title "Steering Device of Vehicle" to --Steering Apparatus for a Vehicle--. The title was amended in a Preliminary Amendment filed with the application on January 31, 2005. A copy of the Preliminary Amendment is attached hereto, as well as a copy of the detailing documents that were filed with the application.

Issuance of a corrected Official Filing Receipt is respectfully requested.

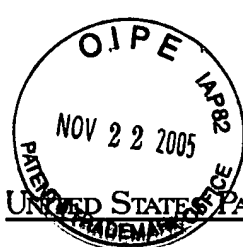
Respectfully submitted,

BUCHANAN INGERSOLL PC

Date: November 20, 2005

By: Matthew L. Schneider  
Matthew L. Schneider  
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## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/522,787	01/31/2005	3618	900	033294-048	14	4	2

CONFIRMATION NO. 1742

21839  
BUCHANAN INGERSOLL PC  
(INCLUDING BURNS, DOANE, SWECKER & MATHIS)  
POST OFFICE BOX 1404  
ALEXANDRIA, VA 22313-1404

## FILING RECEIPT



\*OC000000016603954\*

Date Mailed: 07/27/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Toshihisa Kato, Aichi-ken, JAPAN;  
Fukami Masanobu, Aich-ken, JAPAN;  
Tokio Yakushijn, Osaka-fu, JAPAN;

**Power of Attorney:** The patent practitioners associated with Customer Number 21839.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/09512 07/28/2003

## Foreign Applications

JAPAN 2002-225676 08/02/2002



**Projected Publication Date:** 11/03/2005

**Non-Publication Request:** No

**Early Publication Request:** No

## Title

Steering device of vehicle

STEERING APPARATUS  
FOR A VEHICLE

From NEW

22 2005  
7-29-05  
Cfr

**Preliminary Class**

180

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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## PCT Postcard

10/522787

Applicant/

Inventor: Toshihisa Kato et al.

Appln. No.:

Docket No.: 033294-048

Working Atty.: WCR/shw

Date: January 31, 2005

Title: STEERING APPARATUS FOR A VEHICLE (as amended)

DT07 Rec'd PCT/PTO 3 1 JAN 2005

Dkt. Clerk Initials



The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- ☐ Transmittal Letter to the U.S. Receiving Office/Response to Invitation (PTO-1382)
- ☒ Transmittal Letter to U.S. Designated/Elected Office (DO/EO/US) Concerning Filing Under 35 USC 371 (PTO-1390)
- ☐ PCT Request (PCT/RO/101) ( ) pgs.

## INCLUDING:

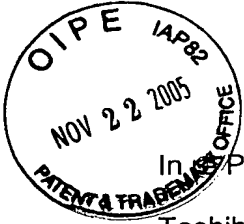
- ☒ Specification (pages 1 - 49 )
- ☒ Claims (claims(s) 1 - 4 , 2 pgs.)
- ☒ Drawings (Fig(s). 1 - 15 , 14 pgs.)
- ☒ Abstract of the Disclosure
- ☐ PCT Fee Calculation Sheet Annex to the Request (PCT/RO/101 (Annex))
- ☐ PCT Demand (PCT/IPEA/401) International Preliminary Examination Report
- ☐ PCT Fee Calculation Sheet Annex to Demand for Int'l. Preliminary Exam. (PCT/IPEA/401 (Annex))

- ☐ PCT Notice of Confirmation of Precautionary Designations (PCT/RO/144)
- ☐ Executed Declaration/Power of Attorney
- ☐ Unexecuted Declaration/Power of Attorney
- ☐ Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)
- ☐ Appointment of Agent
- ☒ Preliminary Amendment
- ☐ Information Disclosure Statement Transmittal
- ☒ Information Disclosure Citation (PTO-1449)
- ☒ Information Disclosure Statement w/ 1 document(s)
- ☒ Patent Application Data Sheet
- ☒ Gen. Authorization for Petition for Ext. of Time and Payment of Fees
- ☐ Diskette

- ☐ Check for \$ is enclosed
- ☐ Check for \$ is enclosed
- ☐ Charge \$ to Deposit Account
- ☒ Charge \$ 1,000.00 to credit card. Form PTO-2038 is attached.
- ☒ PCT/ISA/210
- ☒ Amendment of the Claims under Article 19(1) (Rule 46)
- ☐
- ☐

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Toshihisa KATO et al.

Application No.: Unassigned

Filed: January 31, 2005

For: STEERING APPARATUS FOR A  
VEHICLE (As Amended)

) Group Art Unit: Unassigned  
)  
) Examiner: Unassigned  
)  
) Confirmation No.: Unassigned  
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PRELIMINARY AMENDMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-captioned patent application, kindly amend the application as follows.

Handwritten initials "AB" and "CR" above the date "1-31-05".

**AMENDMENTS TO THE SPECIFICATION:**

Please replace the title with the following amended title:

**"STEERING DEVICE OF APPARATUS FOR A VEHICLE"**

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Original) A steering apparatus for a vehicle, applied to a vehicle which has braking force control means for applying braking force to a predetermined wheel in accordance with motion condition of the vehicle so as to generate a yawing moment for stabilizing the motion condition of the vehicle, equipped with a steerable-wheel steering mechanism which changes the steering angle of steerable wheels of the vehicle in accordance with displacement of a steering member operated by a driver and which generates a quantity related to assist force for assisting the operation of the steering member in accordance with a quantity related to operating force applied to the steering member by the driver and on the basis of a predetermined characteristic, the steering apparatus comprising:

index value obtaining means for obtaining an excessive roll generating tendency index value indicating the degree of a tendency of the vehicle to roll excessively; and

steering characteristic changing means for changing the predetermined characteristic in such a manner that the assist force for a certain operating force applied to the steering member decreases with increase of the degree of the tendency of the vehicle to roll excessively indicated by the obtained excessive roll generating tendency index value.

2. (Original) A steering apparatus for a vehicle, applied to a vehicle which has braking force control means for applying braking force to a predetermined wheel in accordance with motion condition of the vehicle so as to generate a yawing moment for



stabilizing the motion condition of the vehicle, equipped with a steerable-wheel steering mechanism which changes the steering angle of steerable wheels of the vehicle in accordance with position of a steering member operated by a driver and on the basis of a predetermined characteristic, the steering apparatus comprising:

index value obtaining means for obtaining an excessive roll generating tendency index value indicating the degree of a tendency of the vehicle to roll excessively; and

steering characteristic changing means for changing the predetermined characteristic in such a manner that the steering angle of steerable wheels for a certain position of the steering member decreases with increase of the degree of the tendency of the vehicle to roll excessively indicated by the obtained excessive roll generating tendency index value.

3. (Currently Amended) A steering apparatus for a vehicle according to claim 1 or 2, wherein the excessive roll generating tendency index value is a value based on at least one of lateral acceleration, which is a component of acceleration acting on the vehicle in a vehicle-body lateral direction, roll angle of the vehicle, and operating speed of the steering member.

4. (New) A steering apparatus for a vehicle according to claim 2, wherein the excessive roll generating tendency index value is a value based on at least one of lateral acceleration, which is a component of acceleration acting on the vehicle in a vehicle-body lateral direction, roll angle of the vehicle, and operating speed of the steering member.

REMARKS

By way of the foregoing amendments, the title has been amended to conform to the English language translation. Claims 1 and 2 have been transmitted by the Amended Sheets under Article 19(1) (Rule 46), claim 3 has been amended to delete the multiple dependency and new claim 4 has been added. No new matter has been introduced by these changes.

It is requested that the application be examined on the basis of the title, and the claims.

Early and favorable consideration with respect to this application is respectfully requested.


Should any questions arise in connection with this application, the undersigned respectfully requests that he be contacted at the number indicated below.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: January 31, 2005

By:



William C. Rowland  
Registration No. 30,888

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